



OHIO DEPARTMENT OF TRANSPORTATION

PLANNING & ENGINEERING DEPARTMENT, DISTRICT 4

Project **SUM-76-12.03**

Calc By **SJD** Date **06/03/24**

Desc **ESTIMATED STRUCTURE QUANTITIES:**

Chk By **CLG** Date **06/08/24**

OFFICE CALCULATIONS

PID/PROJ **116820**

ITEM	EXTENSION	UNIT	DESCRIPTION
202	23501	SY	WEARING COURSE REMOVED, AS PER PLAN

LENGTHS ARE CALCULATED FROM CADD AERIALS FOR PRESSURE RELIEF JOINTS

	LENGTH	WIDTH	AREA	
SUM-76-12.301	<u>293</u>	FT <u>4</u>	FT <u>130</u>	SY
SUM-76-12.357	<u>58</u>	FT <u>4</u>	FT <u>26</u>	SY
SUM-76-12.656	<u>315</u>	FT <u>4</u>	FT <u>140</u>	SY
SUM-76-12.760	<u>290</u>	FT <u>4</u>	FT <u>129</u>	SY
SUM-76-12.960	<u>309</u>	FT <u>4</u>	FT <u>137</u>	SY
SUM-76-13.012	<u>58</u>	FT <u>4</u>	FT <u>26</u>	SY
SUM-76-13.320	<u>290</u>	FT <u>4</u>	FT <u>129</u>	SY
SUM-76-13.657	<u>267</u>	FT <u>4</u>	FT <u>119</u>	SY
SUM-76-14.076	<u>254</u>	FT <u>4</u>	FT <u>113</u>	SY
SUM-76-15.206	<u>238</u>	FT <u>4</u>	FT <u>106</u>	SY
SUM-76-15.320	<u>224</u>	FT <u>4</u>	FT <u>100</u>	SY
SUM-76-16.971	<u>187</u>	FT <u>4</u>	FT <u>83</u>	SY
SUM-76-17.739	<u>248</u>	FT <u>4</u>	FT <u>110</u>	SY

= **1347** SY

ITEM	EXTENSION	UNIT	DESCRIPTION
407	20000	GAL	0.06 GAL/SY

Thickness	0.08	YD
Total Sides	2020	YD

= **249** GAL

ITEM	EXTENSION	UNIT	DESCRIPTION
441	50300	CY	PRESSURE RELIEF JOINT

= **75** CY



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ITEM	EXTENSION	UNIT	DESCRIPTION
516	14600	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: REPAIR EXPANSION JOINT EXTRUSION, AS PER PLAN <i>REAR RIGHT EASTBOUND LANE AND WESTBOUND LANE MEASURED ALONG SKEW</i>

SUM-76-14.076	<u>60</u>	FT
=	60	FT

ITEM	EXTENSION	UNIT	DESCRIPTION
519	12304	SY	SPECIAL - PATCHING CONCRETE BRIDGE DECK - TYPE C <i>FROM INSPECTION REPORTS</i>

SUM-76-12.760	<u>260</u>	SY
SUM-76-12.960	<u>73</u>	SY
SUM-76-14.076	<u>251</u>	SY
SUM-76-15.206	<u>617</u>	SY
SUM-76-15.320	<u>414</u>	SY
=	1615	SY

ITEM	EXTENSION	UNIT	DESCRIPTION
519	10000	SY	SPECIAL - PATCHING CONCRETE BRIDGE DECK OVERLAY WITH MICRO-SILICA MODIFIED CONCRETE <i>FROM INSPECTION REPORTS</i>

SUM-76-13.320	<u>96</u>	SY
=	96	SY

ITEM	EXTENSION	UNIT	DESCRIPTION
848	10001	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T=1 1/4") <i>SEE 116820_SD001.xlsx FOR CALCULATIONS</i>

SUM-76-12.301	<u>2112</u>	SY
=	2112	SY



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ITEM	EXTENSION	UNIT	DESCRIPTION
848	20001	SY	SURFACE PREPARATION USING HYDRO DEMOLITION, AS PER PLAN

SEE 116820_SD001.xlsx FOR CALCULATIONS

SUM-76-12.301 2112 SY

= **2112** SY

ITEM	EXTENSION	UNIT	DESCRIPTION
848	30001	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN

SEE 116820_SD001.xlsx FOR CALCULATIONS

SUM-76-12.301 11 CY

= **11** CY

ITEM	EXTENSION	UNIT	DESCRIPTION
848	50000	SY	HAND CHIPPING

SEE 116820_SD001.xlsx FOR CALCULATIONS

SUM-76-12.301 6 SY

= **6** SY

ITEM	EXTENSION	UNIT	DESCRIPTION
848	50100	LS	TEST SLAB

SEE 116820_SD001.xlsx FOR CALCULATIONS

SUM-76-12.301 LS

= **LS**

ITEM	EXTENSION	UNIT	DESCRIPTION
848	50200	CY	FULL-DEPTH REPAIR

SEE 116820_SD001.xlsx FOR CALCULATIONS

SUM-76-12.301 5 CY

= **5** CY



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ITEM	EXTENSION	UNIT	DESCRIPTION
516	10010	FT	ARMORLESS PREFORMED JOINT SEAL
MEASURED ALONG SKEW			

SUM-76-12.301	<u>308</u>	FT
SUM-76-12.357	<u>161</u>	FT
SUM-76-14.076	<u>657</u>	FT
SUM-76-15.019	<u>112</u>	FT
SUM-76-15.206	<u>416</u>	FT
SUM-76-15.320	<u>433</u>	FT

= **2087** FT

ITEM	EXTENSION	UNIT	DESCRIPTION
519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN
FIELD MEASUREMENTS			

SUM-76-14.076	<u>120</u>	SF
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= **120** SF

ITEM	EXTENSION	UNIT	DESCRIPTION
519	00100	SF	SPECIAL - COMPOSITE FIBER WRAP SYSTEM
FIELD MEASUREMENTS			

SUM-76-14.076	<u>135</u>	SF
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= **135** SF

ITEM	EXTENSION	UNIT	DESCRIPTION
512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
FIELD MEASUREMENTS			

SUM-76-14.076	<u>14</u>	SY
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= **14** SY



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 PID/PROJ 116820

ITEM	EXTENSION	UNIT	DESCRIPTION
516	10000	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL
	MEASURED ALONG SKEW		

SUM-76-13.320 **293** FT

= **293** FT

ITEM	EXTENSION	UNIT	DESCRIPTION
516	14600	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: LOW PROFILE JOINT SYSTEM
	FIELD MEASURED, LENGTH OF TRAVEL LANES		

SUM-76-13.657 6 FT
 CONTINGENCY

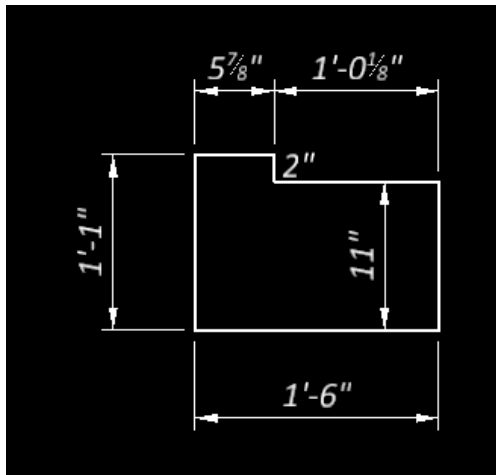
= **6** FT

ITEM	EXTENSION	UNIT	DESCRIPTION
511	71100	CY	CONCRETE, MISC.: EXPANSION JOINT CONCRETE BLOCKOUTS

REPLACEMENT LENGTH (EB ONLY) = 6'-0"

CADD XS AREA OF BLOCKOUTS = 3 SF
 TOTAL REAR JOINT LENGTH = **6** FT

= **1** CY
 = **2** CY (1 additional CY for contingency)





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519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C

SUM-76-13.657

EB:

$$((1'-6" - 12-1/8") \times 2 \text{ SIDES} \times 54'-2")/9 =$$

7 SY (ROUNDED UP)

EB DEDUCTION FOR REPLACEMENT SECTION = 6'-0"

WB:

$$((1'-6" - 12-1/8") \times 2 \text{ SIDES} \times 60'-2")/9 =$$

7 SY (ROUNDED UP)